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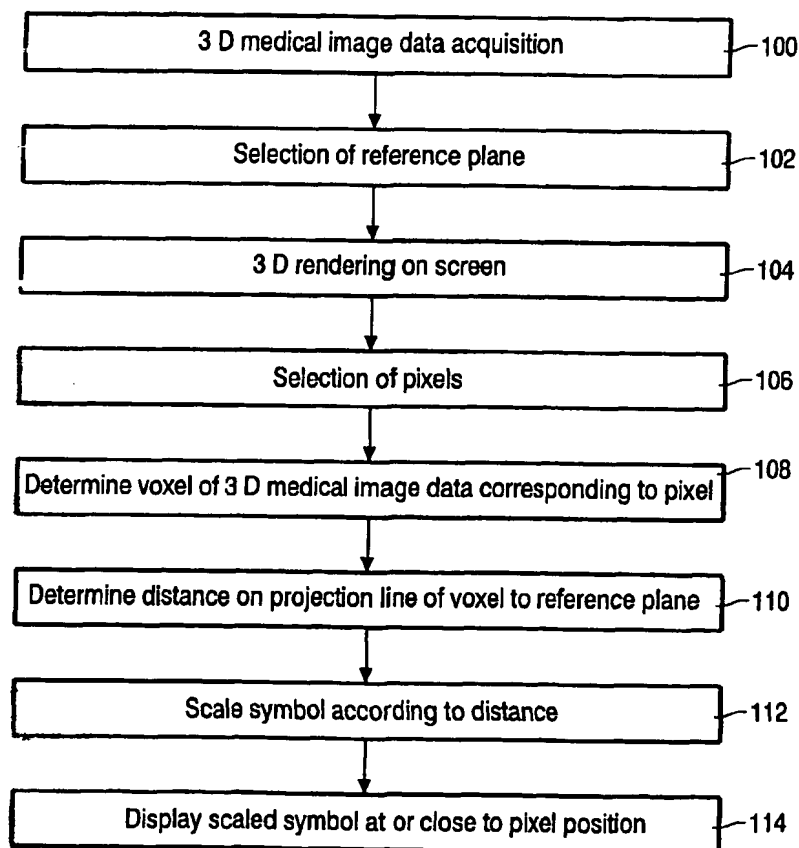
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(54) Title: METHOD AND APPARATUS OF DISPLAYING OF A MEDICAL IMAGE



(57) Abstract: The invention relates to a method of displaying of a medical image, the method comprising the steps of: rendering of three dimensional image data on a display unit, selection of a picture element, determining a distance of a volume element corresponding to the picture element from a reference plane, scaling the size of a symbol based on the distance, displaying of the scaled symbol at or in the proximity of the selected picture element.

WO 2004/062463 A3



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Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 765 561 A (MCKENNA MICHAEL A ET AL) 16 June 1998 (1998-06-16) column 1, line 1 - column 2, line 58 column 8, line 10 - column 8, line 58	1-9
Y	US 6 023 275 A (MARKLEY MICHAEL E ET AL) 8 February 2000 (2000-02-08) column 5, line 17 - column 5, line 30 column 20, line 6 - column 21, line 33	1-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5765561	A	16-06-1998	AU 4002595 A	02-05-1996
			CA 2202052 A1	18-04-1996
			WO 9610949 A1	18-04-1996
			US 2003032876 A1	13-02-2003
US 6023275	A	08-02-2000	US 5880733 A	09-03-1999
			US 6016145 A	18-01-2000